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## IN THE CLAIMS

1. (Withdrawn) A filter cartridge for filtering a slurry composition comprising:

a hollow housing having an inlet and an outlet, said hollow housing being filled with a filtration medium and being free of an open void volume upstream of said filtration medium,

said filtration medium comprising depth filter segments separated by annular spaces.

- 2. (Withdrawn) The filter cartridge of Claim 1 wherein the filtration medium is formed of a depth filter, the filtration medium being divided into a plurality of segments by two or more spacers spaced apart from each other along an inner length of a filter cartridge housing, the two or more spacers having one or more openings to allow fluid to pass therethrough along a defined path defined by the configuration of the open portions of the two or more spacers.
- 3. (Withdrawn) The filter cartridge of Claim 1 wherein the hollow housing has a first end containing the inlet and the outlet, a conduit within said housing providing fluid communication from said inlet to a second end of said housing, said hollow housing being filled with a filtration medium in the form of a depth filter, said filtration medium being divided into a plurality of segments by two or more spacers spaced apart from each other along the length of a filter cartridge housing, each of the two or more spacers having one or more openings to allow fluid to pass through along a defined path defined by the configuration of the one or more openings of the two or more spacers.

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- 4. (Withdrawn) The filter cartridge of Claim 1 wherein said filtration medium is a depth filter selected from the group consisting of a wound depth filter formed of nonwoven fibers, a stack of sheets wherein each sheet comprises nonwoven fibers and a fibrous mass of nonwoven polymeric fibers secured together by a mechanical entanglement of the fibers.
- 5. (Canceled) The process for filtering a slurry which comprises passing a slurry through a conduit positioned within a filtration cartridge and from said conduit through a depth filter, said cartridge being free of an open void volume upstream of said depth filter, said depth filter comprising depth filter segments separated by annular spacers and recovering a filtered slurry from said cartridge.
- 6. (Previously Presented) The process of Claim 22 wherein said depth filter segments are selected from the group consisting of a wound depth filter comprising nonwoven fibers, a stack of sheets wherein each sheet comprises nonwoven fibers and a fibrous mass of nonwoven polymeric fibers secured together by mechanical entanglement of the fibers.
- 7. (Previously Presented) The process of Claim 22 wherein said slurry is selected from the group consisting of a silica-based slurry, an alumina-based slurry, a ceria-based slurry, a diamond-based slurry and a MnO<sub>2</sub>-based slurry, a cell broth, a photoresist chemical, a fermentation liquid, blood, a blood fraction and a transgenic liquid.
- 8. (Previously Presented) The process of Claim 22 wherein said slurry is selected from the group consisting of a silica-based slurry, an alumina-based slurry, a ceria-based slurry, a diamond-based slurry and a MnO<sub>2</sub>-based slurry.

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- 9. (Previously Presented) The process of Claim 22 wherein said slurry is selected from the group consisting of a cell broth, a photoresist chemical, a fermentation liquid, blood, a blood fraction and a transgenic liquid.
- 10. (Withdrawn) The process of Claim 5 wherein said slurry is transgenic milk.
- 11. (Withdrawn) The process of Claim 5 wherein said slurry is selected from the group consisting of blood and a blood fraction.
- 12. (Withdrawn) The filter cartridge of Claim 1 wherein the spacers are configured to seal the inner surfaces of the filter cartridge housing to prevent channeling of the fluid being filtered along the inner surfaces of the housing.
- 13. (Withdrawn) The filter cartridge of Claim 1 wherein the spacers are formed of annular inner spacers and annular outer spacers throughout the height of the housing.
- 14. (Withdrawn) The filter cartridge of Claim 1 wherein the spacers can be retained in position by retainers.
- 15. (Withdrawn) The filter cartridge of Claim 1 wherein the spacers are retained in position by retainers and the retainers are snap rings which fit into grooves of the interior wall of the housing.
- 16. (Withdrawn) The filter cartridge of Claim 1 wherein the spacers have an open central volume portion.

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- 17. (Withdrawn) The filter cartridge of Claim 1 further comprising small spaces formed between the filter segments adjacent the spacers.
- 18. (Withdrawn) The filter cartridge of Claim 1 further comprising small spaces formed between the filter segments adjacent the spacers and wherein the spaces have a height of less than about 0.12 inch (0.3048 cm).
- 19. (Withdrawn) The filter cartridge of Claim 1 further comprising small spaces formed between the filter segments adjacent the spacers and wherein the spaces have a height of less than about 0.09 inch (0.2286 cm).
- 20. (Withdrawn) The filter cartridge of Claim 1 wherein the spacers have an internal spacer segment and an external spacer segment connected together by two or more ribs.
- 21. (Withdrawn) The filter cartridge of Claim 1 wherein the spacers have an internal spacer segment and an external spacer segment connected together by two or more ribs and the internal spacer has one or more ribs.

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22. (Currently Amended) The process of filtering a slurry to remove undesirably large particles from a slurry with a filtration cartridge having a housing, an inlet to said housing, a conduit within said housing in fluid communication with said inlet, a first outlet from said conduit in fluid communication with a depth filter comprising depth filter segments separated by annular spacers surrounding said conduit and a second outlet from said housing, said filtration cartridge being free of an open void volume having a height greater than about 1 inch which causes separation of desirably sized particles from said slurry upstream of a first surface of said depth filter in contact with said slurry, said annular spacers having a height between about 0.01 and about 0.12 inch, the ratio of the height of said depth filter segments to the height of said annular spacers being between about 1:1 and about 5:1, the annular spacers having an open portion and a solid portion, which comprises passing said slurry sequentially through said inlet, through said conduit, through said first outlet, through said depth filter and through said second outlet.

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